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B 0 5 B 15/00			B 0 6 B 15/00	
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绘画平7~140027 平成7年(1995)5月15日

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(71)出版人 592014104

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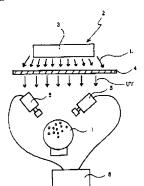
山田 武彦 埼玉県外父市大野原20番地 ブリデストン

(74)代與人 弁理士 小品 製可

(54) (発明の名称) ゴルフポール強調の鎮厚側定方法及び装置

(元)【要約】

【構成】 黄光増白剤を配合したクリアー強料の強度が 表面に形成されたゴルフボールに対して異外線を限計 し、得られた2次発光株をCCDカメラで観察すると共 このカメラで取り込んだ面像を多道化処理して、 配金額の明時像を特、この明暗から金属厚さを計更する ことを特徴とするゴルフボール金属の展界測定方法。 【効果】 本発明によれば、ゴルフボールのクリア 媒の媒原を簡単、迅速に、しかも正確に計画し特、値裏 の薬の塗りむらも容易に統則することができる。



DERWENT-ACC-NO: 1997-DERWENT-WEEK: 199706

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TITLE: Film thickness measuring method for inspecting coating irregularity of golf bail - involves processing received image that contains light and dark areas using pair of CCD camera

PATENT-ASSIGNEE: BRIDGESTONE SPORTS KK[BRID]

PRIORITY-DATA: 1995JP-0140027 (May 15, 1995)

PATENT - FAMILY:

APPLICATION-DATA:

JP 08309262 A

PUB-DATE November 26, 1996

APPL-DESCRIPTOR

LANGUAGE

PAGES

MATN B05C

APPL-DATE May 15, 199

APPL-NO 1995JP-0140027 PUB-NO JPD8309262A N/A

ABSTRACTED-PUB-NO: JP08309262A
BASIC-ABSTRACT: The method involves radiating UV beam (L) onto a golf ball (1 from an UV irradiation appts (2). The golf ball that is coated with a coatin film, through an UV filter (4). The coating film is blended with a fluoresce whitening agent.

The radiated UV rays are reflected from the surface of golf ball. reflected light beam is received by a pair of CCD camera (5) that processes t received image. The image of coating film has light and dark areas based on which thickness of coating film is measured.

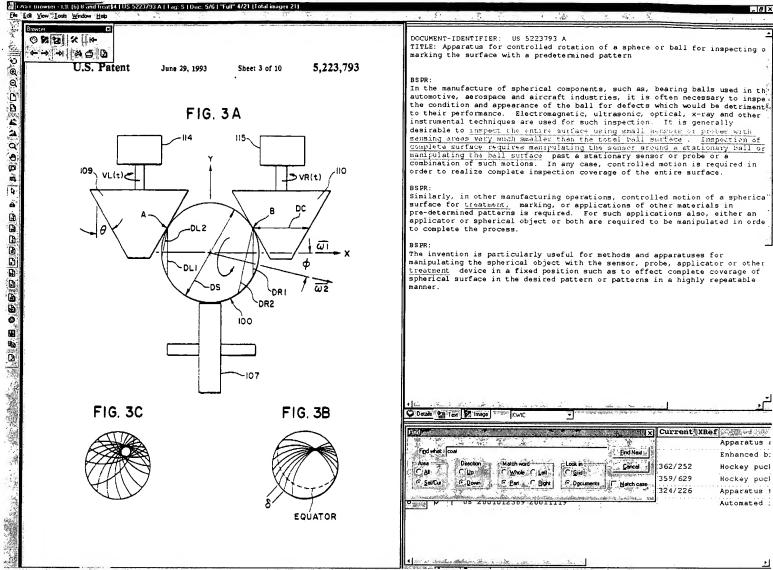
ADVANTAGE - Enables easy discrimination of coating irregularity of coating film. Enables simple, quick and correct measurement.

CHOSEN-DRAWING: Dwg.1/4

TITLE-TERMS:

FILM THICK MEASURE METHOD IMSPECT COATING TEREGULAR COLF BALL PROCESS RECEIV IMAGE CONTAIN LIGHT DARK AREA PAIR COD CAMERA

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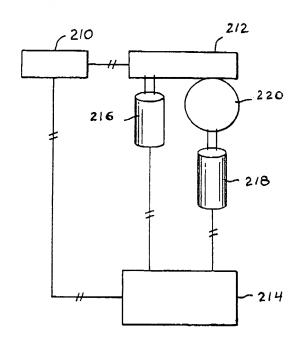


U.S. Patent

Nov. 13, 2001 Sheet 7 of 15

EAST Browser - L5: (236) golf near ba... [US 6315684 B1 | Lag: S | Doc: 25/236 | "Full" 9/40 (Total images 40)

US 6,315,684 B1



F1G. 13

DOCUMENT-IDENTIFIER: US 6315684 B1 TITLE: Walf ball with soft core

TTL: Golf ball with soft core

ABPL: Disclosed herein is a <u>golf ball</u> utilizing a core that comprises at least two particular types of polybutadiene. In one aspect, a combination of a polybutadiene obtained from a cobalt catalyst is used in conjunction with a compression of the property of the prope polybutadiene obtained from a neodymium catalyst. Also disclosed are golf-balls comprising particular cover compositions. In one aspect, a cover composition is disclosed that includes a sodium ionomer, a magnesium ionomer, and a zinc ionomer. The golf balls exhibit improved distance while providin soft sound and feel.

BSPR:

BSPR:
The present invention is directed to golf balls utilizing improved polybutadiene compositions for use in molded golf ball cores in conjunction with a particular type of cover composition. In one aspect, the improved polybutadiene compositions utilize one or more particular butadiene rubbers synthesized through the use of neodymium and cobalt-containing catalysts. The polybutadiene is preferably an ultra-high Mooney viscosity polybutadiene. In another aspect, the improved polybutadiene compositions utilize a particular solid butadiene rubber that exhibits an ultra-high Mooney viscosity and/or a high molecular weight and a low dispersity. The use of such butadiene rubber and/or blend of butadiene rubbers increases the resiliency of the ball. In addition, significantly improved mixing properties are achieved. In another aspect, the golf balls feature particular cover constructions that result in the balls exhibiting a soft feel and particular mechanical impedance.

BSPR:

Two of the principal properties involved in the performance of golf bells at resilience and hardness. Resilience is determined by the coefficient of restitution (referred to as "C.O.R."), also expressed as the constant "e", which is the ratio of the relative velocity of two elastic spheres after dire impact to that before impact, or more generally, the ratio of the outgoing velocity to incoming velocity of a rebounding ball. As a result, the coefficient of restitution (i.e. "e") can vary from zero to one, with one bei equivalent to an elastic collision and zero being equivalent to an inelastic collision and zero being equivalent to an inelastic collision. Hardness is determined as the deformation (i.e. compression) of t ball under various load conditions applied across the ball's diameter. The lower the compression value, the harder the material.

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3	Г	Γ	បន	6319149	В1	200111	20	10	473/342		228/125		Golf club
4	Г	-	បន	6315915	B 1	200111	13	10	216/67		156/272.	6	Treatment
5	Г	Γ	US	6315684	В1	200111	13	40	473/377		524/432		Golf ball
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